

IN THE CLAIMS:

Please amend claims 1-43 as follows:

1. (Currently Amended) ~~Collector/dryer~~ A collector/dryer unit for heat exchangers, and in particular for a refrigerant condenser of a motor vehicle air-conditioning system, ~~having comprising:~~ a collector and a dryer accommodated in exchangeable fashion therein, the collector having a jacket wall that extends around its longitudinal axis and that is formed, at least in a segment extending along the longitudinal axis, by a first tube, the collector having at least one inlet opening for a fluid, such as refrigerant, as well as at least one outlet opening for the fluid, and the outlet opening being situated in the end area facing the first axial end of the collector, and the collector having at its second axial end, facing away from the first axial end, a removal opening for exchanging the dryer, and a detachable closure being provided for this removal opening in the area of the second end,

~~characterized in that wherein~~ on the side of the first tube facing away from the first end, an adapter device or a first profile piece for the detachable closure is provided on which the detachable closure is held in its closed position.

2. (Currently Amended) ~~Unit as recited in Claim~~ The unit according to claim 1, characterized in that the adapter device or the first profile piece is inserted with an end area into an end of the first tube, or is fitted onto an end of the first tube.

3. (Currently Amended) ~~Unit as recited in one of the preceding claims~~ The unit according to claim 1, characterized in that the adapter device or the first profile piece is connected immediately to the first tube, in particular by means of a soldered connection or a welded connection.

4. (Currently Amended) ~~Unit as recited in one of the preceding~~
~~claims~~The unit according to claim 1, characterized in that the adapter device or the first
profile piece forms a segment of the jacket wall of the collector, extending around the
longitudinal axis of this collector, in particular the end segment situated at the second end of
this jacket wall.

5. (Currently Amended) ~~Unit as recited in one of the preceding~~
~~claims~~The unit according to claim 1, characterized in that the first profile piece, or the
adapter device, has a tube-shaped or annular construction.

6. (Currently Amended) ~~Unit as recited in one of the preceding~~
~~claims~~The unit according to claim 1, characterized in that the first profile piece is an extruded
component.

7. (Currently Amended) ~~Unit as recited in one of the preceding~~
~~claims~~The unit according to claim 1, characterized in that the first tube has an essentially
constant wall thickness.

8. (Currently Amended) ~~Unit as recited in one of the preceding~~
~~claims~~The unit according to claim 1, characterized in that the adapter device, or the first
profile piece, is a component that is different from the first tube.

9. (Currently Amended) ~~Unit as recited in one of the preceding~~
~~claims~~The unit according to claim 1, characterized in that the inner surface of the first profile
piece has, in segments or completely, a circular construction, in the cross-section seen
perpendicular to the longitudinal axis thereof.

10. (Currently Amended) ~~Unit as recited in one of the preceding~~
~~claims~~The unit according to claim 1, characterized in that the inner surface of the first profile
piece, seen in cross-section perpendicular to the longitudinal axis thereof, has different
(inner) circumferential dimensions along ~~this~~said longitudinal axis.

11. (Currently Amended) ~~Unit according to one of the preceding~~
~~claims~~The unit according to claim 1, characterized in that the first profile piece has at least
one groove for receiving a securing ring.

12. (Currently Amended) ~~Unit according to Claim~~The unit according
to claim 1, characterized in that a securing ring is detachably situated in this groove, and by
means of this securing ring the closure element is blocked in the direction facing away from
the first end of the unit.

13. (Currently Amended) ~~Unit according to one of the preceding~~
~~claims~~The unit according to claim 1, characterized in that the closure element is constructed
as a screw closure, and is screwed into a threading of the adapter device or of the first profile
piece in order to provide a detachable closure of the collector.

14. (Currently Amended) ~~Unit as recited in one of the preceding~~
~~claims~~The unit according to claim 1, characterized in that at least one sealing device is
provided, in particular at least one sealing device for sealing the detachably held closure
against the first profile piece or adapter device, or against the first tube.

15. (Currently Amended) ~~Unit as recited in one of the preceding~~
~~claims~~The unit according to claim 1, characterized in that the closure and/or the first profile
piece, or the adapter device, has at least one groove for receiving an O-ring.

16. (Currently Amended) ~~Unit as recited in one of the preceding~~
~~claims~~ The unit according to claim 1, characterized in that at least one O-ring is held in a
groove or grooves of the closure, and this O-ring works together with a surface segment of
the first profile piece or of the adapter device and/or of the first tube to achieve a sealing
effect, in particular with a segment of an inner surface.

17. (Currently Amended) ~~Unit as recited in one of the preceding~~
~~claims~~ The unit according to claim 1, characterized in that seen in the direction of the
longitudinal axis of the collector, the first profile piece is short, in particular in comparison
with the first tube.

18. (Currently Amended) ~~Unit as recited in one of the preceding~~
~~claims~~ The unit according to claim 1, characterized in that the first profile piece has a round
construction.

19. (Currently Amended) ~~Unit as recited in one of the preceding~~
~~claims~~ The unit according to claim 1, characterized in that the wall thickness of the first
profile piece is greater than the wall thickness of the first tube.

20. (Currently Amended) ~~Unit as recited in one of the preceding~~
~~claims~~ The unit according to claim 1, characterized in that the first profile piece is provided
with a threading for receiving a closure provided with a threading, and/or with a groove for
receiving a securing ring, and the remaining wall thickness in the area in which the wall
thickness is reduced by the threading recesses and/or the groove is greater than or equal to
the wall thickness of the first tube.

21. (Currently Amended) ~~Unit as recited in one of the preceding~~
~~claims~~ The unit according to claim 1, characterized in that the inlet opening for the fluid is
situated in the end area facing the first axial end of the collector.

22. (Currently Amended) ~~Unit as recited in one of the preceding~~
~~claims~~ The unit according to claim 1, characterized in that the inlet opening and/or the outlet
opening of the collector are fashioned as rim holes, in particular protruding outwards,
forming in particular at least a segment of an overflow passage.

23. (Currently Amended) ~~Unit as recited in one of the preceding~~
~~claims~~ The unit according to claim 1, characterized in that the inlet opening and/or the outlet
opening of the collector are formed by outwardly oriented projections having a preferably
annular outer contact surface.

24. (Currently Amended) ~~Unit as recited in one of Claims 22 and~~
~~23~~ The unit according to claim 22, characterized in that the stamped-out parts or rim holes are
provided on the first tube.

25. (Currently Amended) ~~Unit as recited in one of the preceding~~
~~claims~~ The unit according to claim 1, characterized in that in the end area of the collector
facing the first end of the collector, a second, preferably extruded, profile piece is provided.

26. (Currently Amended) ~~Unit as recited in Claim~~ The unit according
to claim 25, characterized in that the second profile piece has the inlet opening and/or the
outlet opening of the collector, each of these openings being fashioned in particular as a bore
provided in a jacket wall.

27. (Currently Amended) ~~Unit as recited in one of Claims 25 and 26~~The unit according to claim 25, characterized in that the second profile piece is connected to the first tube, in particular immediately, for example via a soldered connection.

28. (Currently Amended) ~~Unit as recited in one of Claims 25 to 27~~The unit according to claim 25, characterized in that the second profile piece is closed in the area of its end facing away from the second end of the collector, in particular by means of a detachable closure.

29. (Currently Amended) ~~Unit as recited in one of the preceding claims~~The unit according to claim 1, characterized in that the collector houses a filter device for the fluid, which filter device preferably forms a unit with a dryer cartridge.

30. (Currently Amended) ~~Heat exchanger~~A heat exchanger, in particular air-conditioning condenser for a motor vehicle air-conditioning system, having a collector/dryer unit ~~as recited in one of the preceding claims~~according to claim 1.

31. (Currently Amended) ~~Heat exchanger as recited in Claim 30~~The heat exchanger according to claim 30, characterized in that the heat exchanger has a tube block or tube/fin block having a multiplicity of tubes that are essentially parallel at least in sections, and possibly having fins situated between the tubes, the first ends being received by a first collector tube, and the collector being situated parallel to this first collector tube, and the first collector tube having at least two openings of which one is allocated to the inlet opening of the collector and one is allocated to the outlet opening of the collector, so that an overflow opening or overflow passages are formed in order to enable a flow of fluid or refrigerant from the first collector tube into the collector and vice versa.

32. (Currently Amended) ~~Heat exchanger as recited in Claim~~ The heat exchanger according to claim 31, characterized in that a second collector tube is provided that receives the second ends of the tubes of the tube block or tube/fin block.

33. (Currently Amended) ~~Heat exchanger as recited in one of Claims 30 to 32~~ The heat exchanger according to claim 30, characterized in that the first collector tube has a shell-shaped cover part as well as a shell-shaped base part connected thereto, in particular by soldering or welding, this cover part and this base part interacting to form a jacket wall of the first collector tube, and openings, in particular slots, being provided in the base part in order to receive the first ends of the tubes of the tube block or tube/fin block.

34. (Currently Amended) ~~Heat exchanger as recited in one of Claims 30 to 33~~ The heat exchanger according to claim 30, characterized in that the first collector tube has rim holes protruding inward or outward in order to form the openings that are allocated to the inlet opening or to the outlet opening of the collector.

35. (Currently Amended) ~~Heat exchanger as recited in one of Claims 30 to 34~~ The heat exchanger according to claim 30, characterized in that the rim holes of the first collector tube engage in telescoping fashion in the rim holes of the collector, so as to form overflow openings or overflow passages.

36. (Currently Amended) ~~Heat exchanger as recited in one of Claims 30 to 35~~ The heat exchanger according to claim 30, characterized in that the rim holes of the first collector tube and the rim holes of the collector are situated so as to abut one another bluntly with respectively outwardly-directed end surfaces, so as to form overflow openings or overflow passages, the respective abutting rim holes preferably having essentially identically shaped and identically dimensioned end surfaces.

37. (Currently Amended) ~~Heat exchanger as recited in Claim~~ The heat exchanger according to claim 36, characterized in that the rim holes that abut one another with their end surfaces are radially outwardly sheathed by a common sleeve, or radially inwardly accommodate a common sleeve, in particular making contact therewith.

38. (Currently Amended) ~~Heat exchanger as recited in one of Claims 30 to 37~~ The heat exchanger according to claim 30, characterized in that the first collector tube, in order to form the openings that are allocated to the inlet opening or to the outlet opening of the collector, has outwardly directed projections having a preferably annular outer contact surface.

39. (Currently Amended) ~~Heat exchanger as recited in one of Claims 30 to 38~~ The heat exchanger according to claim 30, characterized in that the first collector tube has outwardly protruding collars each of which forms an opening, which engage in the inlet opening or in the outlet opening of the collector in order to form overflow openings or overflow passages, the inlet opening and/or the outlet opening of the collector preferably being situated on the second profile piece.

40. (Currently Amended) ~~Heat exchanger as recited in one of Claims 30 to 39~~ The heat exchanger according to claim 30, characterized in that the second profile piece has an outer surface area that faces the first collector tube and whose shape is adapted to an outer surface area of the first collector tube, in particular having a curved construction, and these outer surface areas contacting one another.

41. (Currently Amended) ~~Heat exchanger as recited in one of Claims 30 to 40~~ The heat exchanger according to claim 30, characterized in that the collector and the first collector tube are held spaced apart from one another by a slot.

42. (Currently Amended) ~~Heat exchanger as recited in one of Claims 30 to 41~~ The heat exchanger according to claim 30, characterized in that a holding element, fashioned in particular as a ring holder, is provided that holds the collector on the first collector tube in the area of the second end of the collector, and, if necessary, forms a terminating cover of the first collector tube.

43. (Currently Amended) ~~Heat exchanger as recited in Claim 42~~ The heat exchanger according to claim 42, characterized in that the ring holder surrounds the collector with an annular section or a section having the shape of a segment of a ring.